

## ABSTRACT OF THE DISCLOSURE

A piezoelectric device is disclosed, which includes a first element of porous crystalline material, a second element being attached to, or integrally formed with, the first element, and at least one electrode being in electrical contact with the first element, such that subjecting the first element to an electric potential via the at least one electrode results in a strain induced by the first element on the second element. Also disclosed is a piezooptic device which includes a first element of porous crystalline material, a second element being attached to, or integrally formed with, the first element, and a light source, such that subjecting the first element to light originating from the light source results in a strain induced by the first element on the second element.